

Your key to more efficient methods of circuit design

Stressing time- and cost-cutting approaches, this fully authoritative volume is packed with proven new procedures for dealing with typical problems in audio, AM/FM, and TV circuit design.

The fifth book in McGraw-Hill's popular Texas Instruments Series, it brings you the latest advances in electronic design and application. In fact, the vast store of practical guidance you'll find here represents years of research and development on the part of Texas Instruments' communications applications engineers.

This completely reliable reference is based on two earlier books originally published as part of the Texas Instruments Microlibrary. However, the present one-volume edition is an updated version detailing the most current techniques and the newest devices available, together with simplified design equations and step-by-step design procedures.

CIRCUIT DESIGN FOR AUDIO, AM/FM, AND TV

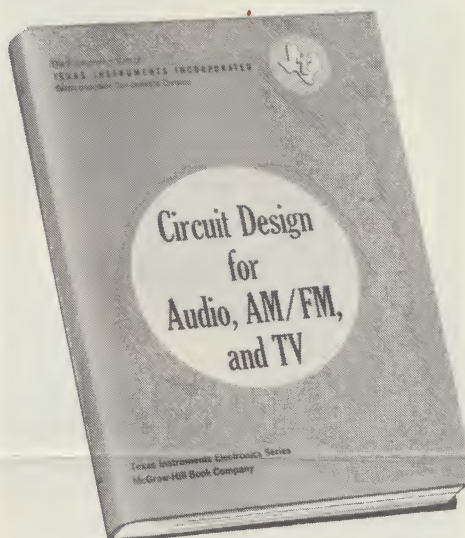
PREPARED BY THE ENGINEERING STAFF OF
TEXAS INSTRUMENTS INCORPORATED
Edited by John R. Miller, Technical Publications Manager
Texas Instruments Electronics Series

Design examples in this intensely practical guide have been chosen to suggest the broad application of the procedures. In the television section, for example, specific design examples are given for each major system comprising a television receiver. In the AM/FM section, the stress is on the practical design of IF strips. Many examples of both neutralized and unneutralized amplifiers are given. In the audio section, the more common coupling schemes for both class A and class B operation are discussed in detail.

Topics considered in the

audio section include audio design procedures, design examples, and derivations of the key equations used in audio design. The AM/FM section discusses IF amplifier designs for AM/FM and FM IF amplifier circuit applications.

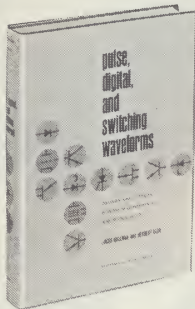
Described in the TV section are UHF and VHF tuners, video IF amplifiers, TV automatic gain control, video amplifier systems, sound IF amplifier systems, sync separators, the vertical oscillator and sweep output, the horizontal AFC and oscillator, and the horizontal driver and sweep output.



352 pages, 7 1/8 x 9 7/8,
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 10. Bistable Multivibrators
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Edited by John R. Miller, Technical Publications Editor

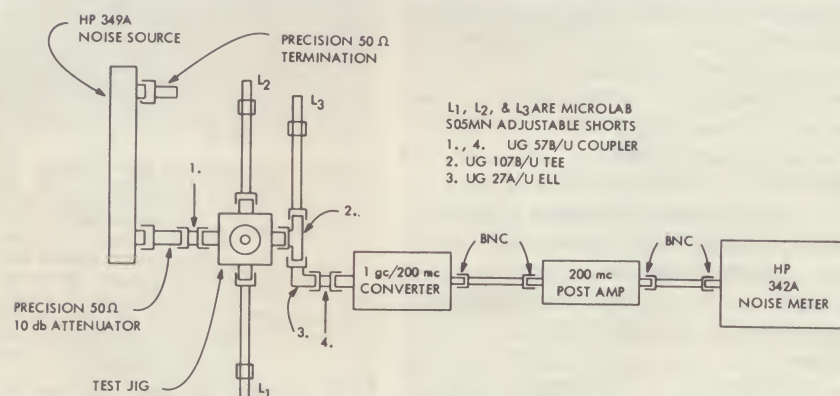
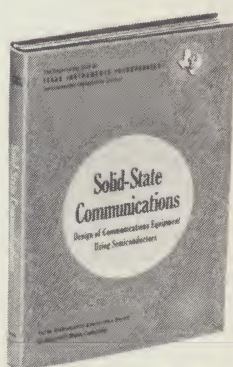
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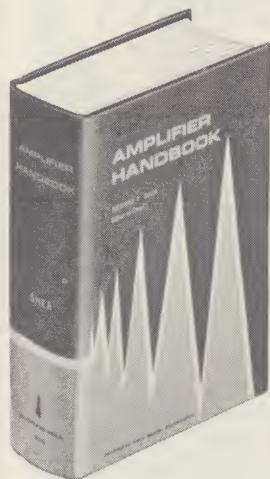
1. New Communications Devices; 2. Dependence of Transistor y Parameters on Bias, Frequency, and Temperature; 3. Typical y Parameter Data; 4. Power Gain and Stability in Linear Active Two-Ports; 5. High-frequency Amplifier Design Using Admittance Parameters; 6. Small-signal UHF Amplifier Design; 7. Field-effect Transistors for Low-level Circuits; 8. Dependence of Field-effect Transistor Characteristics on Temperature; 9. Dual Transistors in Low-level Circuits; 10. Low-level Operation of the 2N929 and 2N930; 11. High Input Impedance Techniques; 12. Noise Characterization; 13. Transistor Gain Control; 14. RF Harmonic Oscillators; 15. Transistors in Wide-band Low-distortion Amplifiers; 16. VHF and UHF Amplifiers and Oscillators Using Silicon Transistors; 17. Causes of Noise; 18. Transistor Noise Figure; 19. Communications Circuit Applications; 20. Device Nomenclature and Standard Test Circuits; 21. Noise Figure Measurement; 22. Power Oscillator Test Procedure.



This diagram of a 1-Gc noise figure test layout is just one of scores of valuable illustrations provided for your guidance.

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